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06/27/2003	Tsuyoshi Iijima	239135US0	5354
7590 01/12/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET		MARTIN, ANGELA J	
A, VA 22314		ART UNIT	PAPER NUMBER
		1745	
	06/27/2003 7590 01/12/2005 VAK, MCCLELLANI TREET	06/27/2003 Tsuyoshi Iijima 7590 01/12/2005 VAK, MCCLELLAND, MAIER & NEUSTADT, P.C. TREET	06/27/2003 Tsuyoshi Iijima 239135US0 7590 01/12/2005 EXAM VAK, MCCLELLAND, MAIER & NEUSTADT, P.C. MARTIN, A TREET ART UNIT

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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/606,749	IIJIMA ET AL.	•		
		Examiner	Art Unit			
		Angela J. Martin	1745			
۔۔ Period for	The MAILING DATE of this communication ap	ppears on the cover sheet with th	e correspondence addre	ess		
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REP IAILING DATE OF THIS COMMUNICATION isons of time may be available under the provisions of 37 CFR 1 IX (6) MONTHS from the mailing date of this communication. Varied for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuply received by the Office later than three months after the mail patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) of d will apply and will expire SIX (6) MONTHS frute, cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this comm NED (35 U.S.C. § 133).	; nunication.		
Status						
1)⊠ F	Responsive to communication(s) filed on <u>27.</u>	June 2003.	·			
		is action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositio	n of Claims					
4 5)□ (6)⊠ (7)□ (8)□ (Applicatio	he specification is objected to by the Examir	awn from consideration. /or election requirement.				
	he drawing(s) filed on is/are: a) ac					
	Applicant may not request that any objection to the		` ,	4.404745		
	Replacement drawing sheet(s) including the corre he oath or declaration is objected to by the E					
Priority un	nder 35 U.S.C. § 119					
a)⊠ 1 2 3	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of th	nts have been received. Its have been received in Application or ty documents have been received in Application (PCT Rule 17.2(a)).	ation No ived in this National Sta	age		
2) Notice (3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	4) Interview Summa Paper No(s)/Mail 3) 5) Notice of Informa 6) Other:		52)		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 4, 5, 7, and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsumura et al., U.S. Pat. No. 6,416,559 B1.

Rejection of claims 1, 2, 4, 5, 7, and 8 drawn to a lithium secondary battery.

Matsumura et al., teach a lithium secondary battery wherein a plurality of cathodes and anodes are arranged to construct an electrode structure (Fig. 5), which includes an outermost layer of electrode on which a back coat layer is formed (col. 4, lines 48-55). It teaches the back coat layer prevents the electrodes from short-circuiting (col. 5, lines 64-67 and col. 6, lines 1-7). It also teaches the layer contains at least an inorganic material as a resin (col. 5, lines 64-67 and col. 6, line 1). It teaches the filler is the same material as an electrode active material (col. 7, lines 3-5). It teaches the layer has a thickness of 200 um (on both sides)(col. 7, lines 50-57). It also teaches the electrode structure is a laminate structure (col. 6, lines 42-57).

Thus, the claims are anticipated.

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3. Claims 3 and 6 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Matsumura et al., U.S. Pat. No. 6,416,559 B1.

Rejection of claims 3 and 6 drawn to a lithium secondary battery.

Matsumura et al., teach a lithium secondary battery as described above. It teaches the material and thickness of the layer within the above claimed range and would therefore prevent the electrodes from warping. It also teaches the separator is comprises polyolefin, which would have a piercing strength of at least 50 gf.

Thus, the claims are anticipated.

However, if the claims are not anticipated, in the alternative the claims are obvious because one of ordinary skill in the art would manufacture an electrode, which would not warp and, would provide a separator with a sufficient piercing strength to further prevent short-circuiting.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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